

RIDGID

Work-Saver PIPE TOOLS

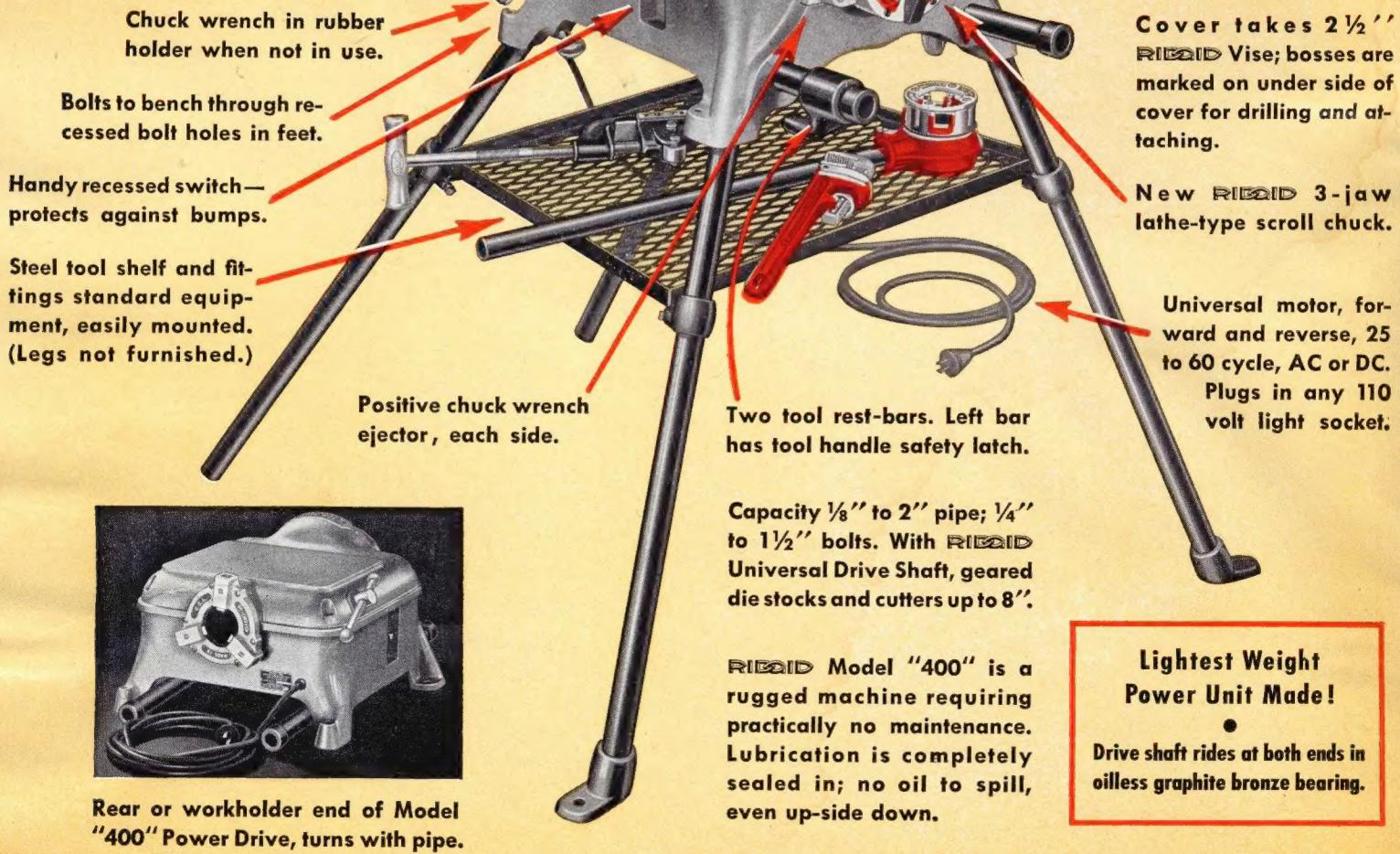
- ★ PIPE WRENCHES
- ★ THREADERS
- ★ CUTTERS
- ★ VISES
- ★ EXTRACTORS
- ★ REAMERS
- ★ PORTABLE POWER DRIVES

THE RIDGE TOOL COMPANY • ELYRIA, OHIO, U.S.A.

New RIDGID "400"

Portable Power Drive

For operating
hand Pipe Threaders
Cutters and Reamers



Rear or workholder end of Model "400" Power Drive, turns with pipe.

RIDGID Model "400" is a rugged machine requiring practically no maintenance. Lubrication is completely sealed in; no oil to spill, even up-side down.

Lightest Weight Power Unit Made!

Drive shaft rides at both ends in oilless graphite bronze bearing.



RIDGID Power operates your hand threaders, cutters, reamers.



Here's power where you want it. New Model "400" gives you portable light weight, extra efficiency, easy operation—highly durable construction. You'll enjoy using it. Order from your Supply House.



Easy to lift into your truck—weighs far less than you expect.

New RIDGID No. 4P Geared Threader

**Threads 2½" to 4" Pipe, Complete with
4 Sets of 5 High-Speed Steel Dies**

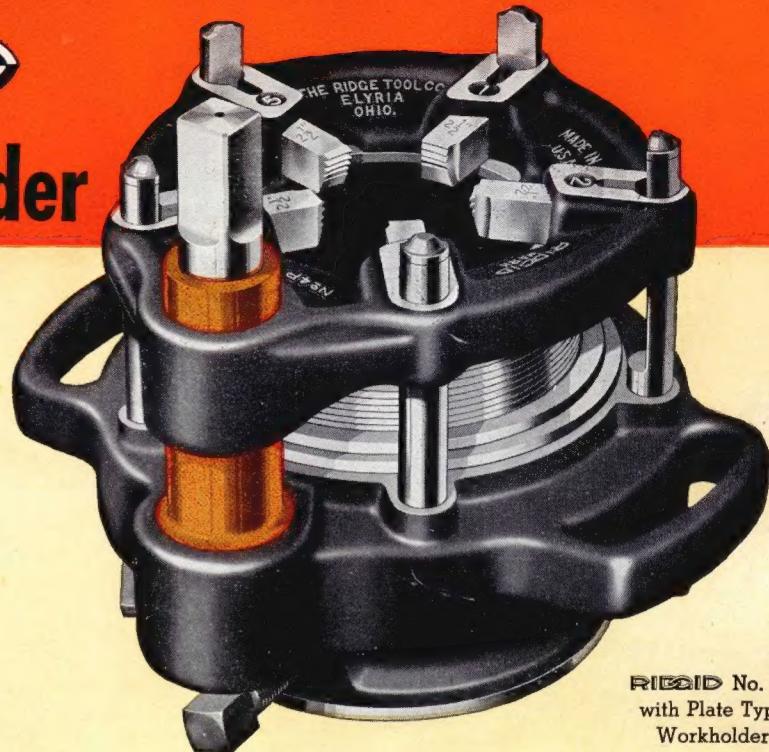
You get new ease of handling and long life of clean positive threading with this new RIDGID all steel-and-malleable No. 4P Poster Threader for 2½" to 4" pipe.

Equipped with mistake-proof RIDGID plate type workholder, you quickly set it to pipe size by two knurled screws before putting on the pipe — only one screw to tighten on pipe, no bushings to bother with or lose.

Husky loop handles cast on the gear cover for good balance make the 4P unusually easy to handle without slipping or tipping over. You'll like the fact that this die stock is not only easy to carry by one handle but to lift and put on the pipe.

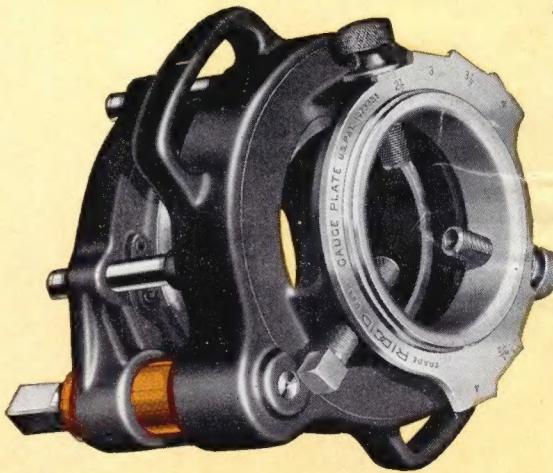
The 4P requires practically no upkeep. Its precision driving pinion turns in an oilless bronze bearing that never requires oil; fully enclosed gear running in grease protects user and keeps out dirt. Drive pinion is solidly twin-anchored to face plate and gear housing for years of positive service.

RIDGID design universal drive shaft available for power drive. Ratchet handle for hand threading, furnished with each die stock. Workholder adjusting screw wrench also furnished.



RIDGID No. 4P
with Plate Type
Workholder

Patent No. 1,973,231.
Other patents
applied for



View of work-
holder end of 4P



New RIDGID Design Universal Drive-shaft
available. RIDGID Ratchet Handle For
Hand Threading.



Four sets of five high-speed steel chaser dies for 2½", 3", 3½" and 4" pipe give you clean smooth standard or tapered threads, U. S. Standard or Whitworth, with least effort, last longer without regrinding or replacing. Dies are held by spring and ball, can't drop out. Chaser slots are closed on top against dirt and chips, won't stretch. Design assures threads perfectly straight on pipe; 4P also cuts drip threads and short nipples, is semi-adjustable for over-and-under-size threads. Clear "Standard" line on posts makes setting easy.

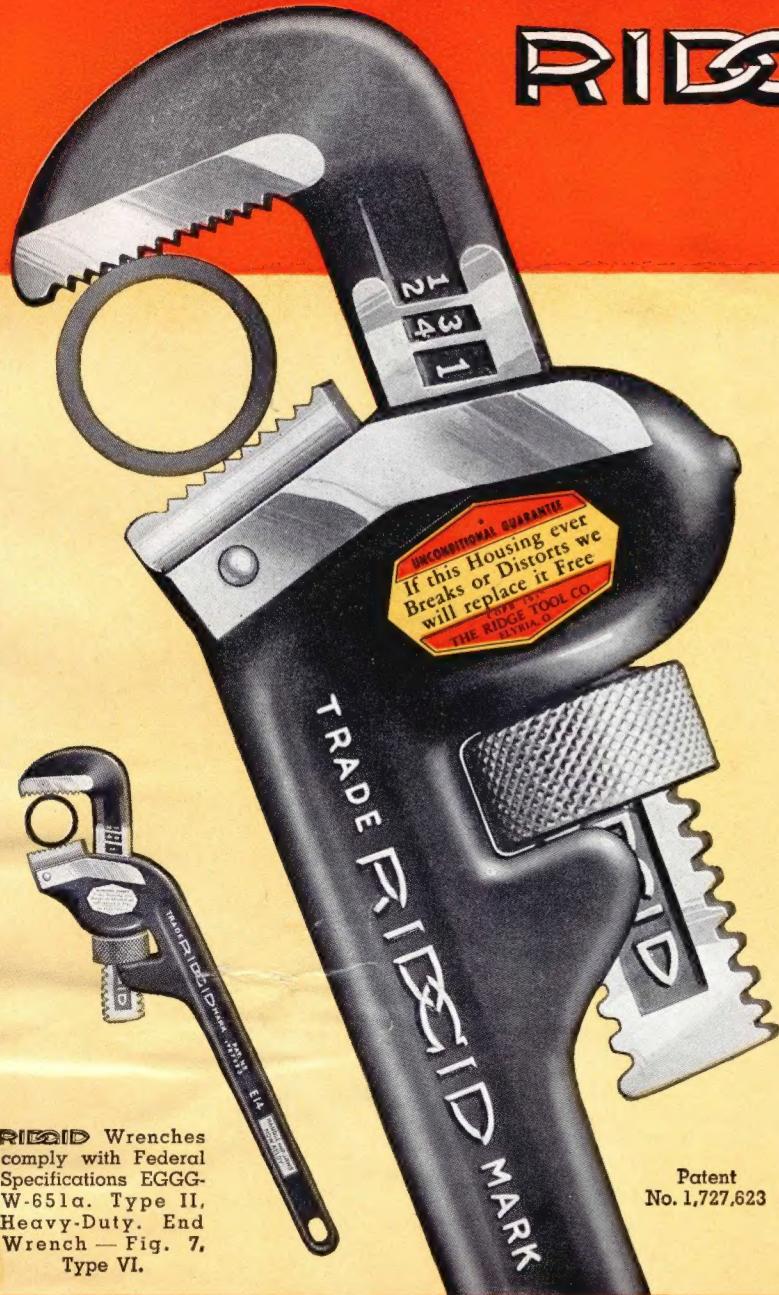
Like all RIDGID Pipe Tools, this new 4P offers you work-saver advantages and precision-built quality and durability that make it a lot more tool satisfaction for your money. Order the new 4P from your Supply House.

Loop handles make new No. 4P extra easy
to put on pipe.



Easily carried

RIDGID Pipe Wrenches



RIDGID Wrenches comply with Federal Specifications EGGG-W-651a. Type II, Heavy-Duty. End Wrench — Fig. 7. Type VI.

Patent
No. 1,727,623

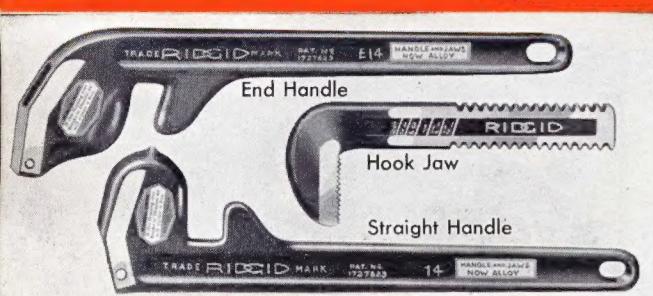
UNCONDITIONAL GUARANTEE

If this Housing ever
Breaks or Distorts we
will replace it Free.

COPR. 1937
THE RIDGE TOOL CO.
ELYRIA, O.

Guarantee You Against Wrench Housing Troubles and Expense

RIDGID is the only pipe wrench with an unconditionally guaranteed housing: if it ever breaks or distorts, it is replaced free. That feature practically ends the problem of wrenches out of use for repairs and the bother and expense involved; fewer spares needed. You get safe strength in housing, handle and jaws. Heeljaw is replaceable, hookjaw has handy pipe scale; jaws are designed for quick positive grip, instant let-go; won't lock on a pipe. Adjusting nut in open housing is easy to get hold of, always spins easily. I-beam handle is comfortable to the hand; convenient hang-up hole. Regular wrench made in all sizes from 6" to 60". End pattern for pipe in coils or against flat surfaces is made in 6" to 36" sizes. You do more work with less effort and reduce your tool costs with the **RIDGID**.



RIDGID Pipe Wrench Parts

Genuine **RIDGID** Wrench parts are identical with those assembled into your original wrench. You may have jaws factory reconditioned like new at half the cost of new parts, by ordering through your Supply House.

List Prices of Wrenches and Parts

List Prices Subject to Usual Trade Discounts

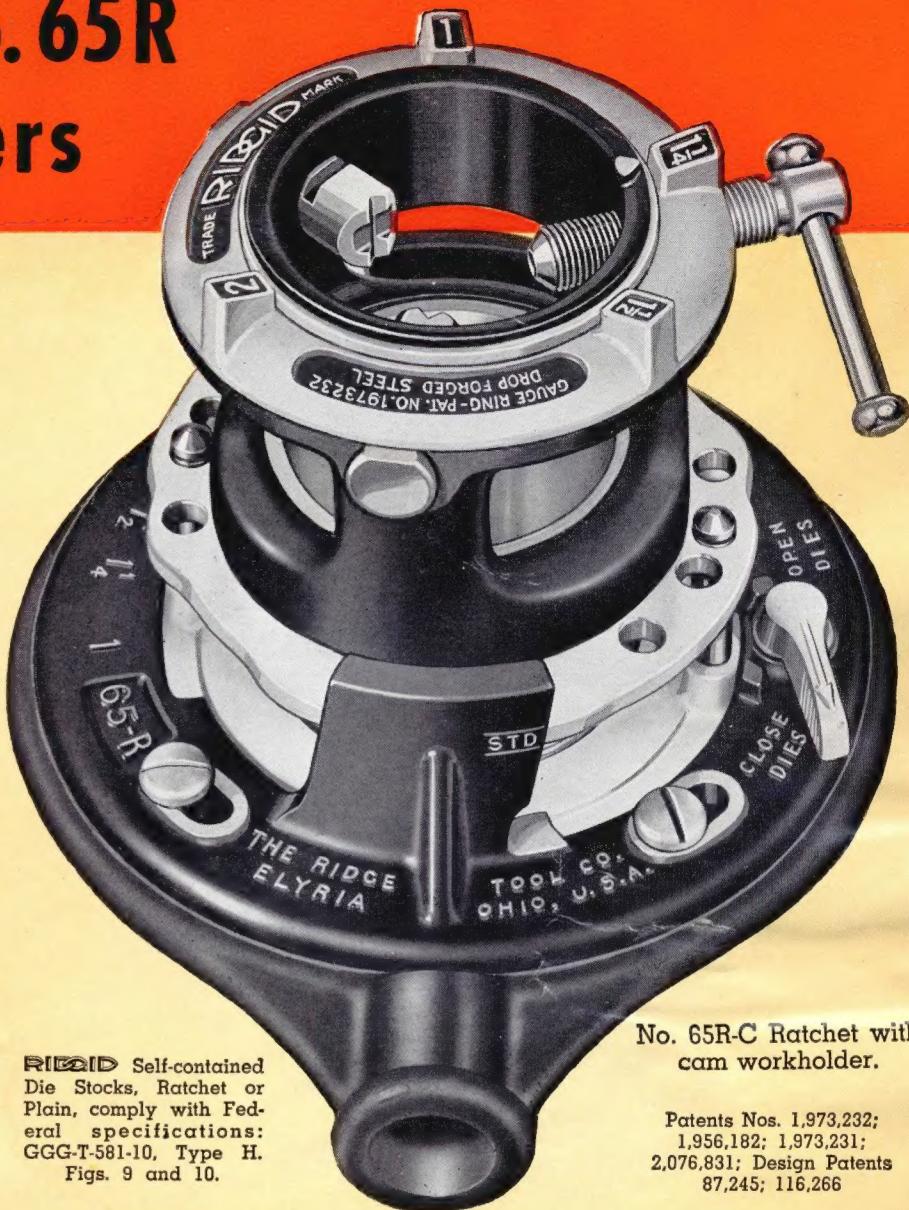
SIZE	Complete Wrench	Straight Handle Assembly	End Handle Assembly	Rubber Grip	Hook Jaw	Heel Jaw & Pin	Pin	Coil Spring	Flat Spring	Nut	Capacity Inches	Weight Each Lbs.	Weight 6 to a Box Lbs.
6" & E 6"	\$1.90	\$1.75	\$1.75		.65	.40	.03	.03	.20	.15	3/4	1/2	2 1/2
8" & E 8"	2.20	1.95	1.95		.70	.45	.03	.03	.20	.15	1	3/4	5
10" & E10"	2.85	2.50	2.50	.40	1.10	.55	.04	.03	.20	.20	1 1/2	1 3/4	10 3/4
12" & E12"	3.35	2.85	2.85		1.25	.65	.04	.03	.25	.25	2	2 3/4	17
14" & E14"	3.85	3.45	3.45	.50	1.50	.65	.04	.03	.30	.30	2	3 1/2	20 1/2
18" & E18"	5.50	4.95	4.95		2.15	.75	.04	.04	.40	.35	2 1/2	5 1/4	32
24" & E24"	9.50	7.95	7.95		3.50	.85	.04	.04	.50	.55	3	8 3/4	52
36" & E36"	20.00	15.00	15.00		5.70	1.15	.05	.04	.60	1.10	4 1/2	16 1/4	
48"	30.00	25.00			9.00	2.05	.05	.04	.80	2.00	6	28	
60"	45.00	35.00			17.00	4.55	.05	.04	1.50	4.00	8	43 1/4	



RIDGID No. 65R Pipe Threaders

Self-Contained die stock that threads 1" to 2" pipe with ONE set of chaser dies

You cut perfect threads on iron, steel, brass or copper pipe and conduit with these self-contained No. 65Rs—in less time and with less effort. They adjust to thread 1", 1 1/4", 1 1/2" or 2" pipe in 10 seconds! One set of dies, no changing, no extra dies to carry around or lose. Closed chaser slots on die face can't stretch. Pull of handle directly over chasers, no cock or wobble. Thumb lever releases dies for quick back-off. Handy stand-up feet. Your choice of 2 speedy mistake-proof workholders—no bushings. Automatic cam type—turn gauge ring to pipe size. Plate type—turn screws to size on plate. Both workholders handle drip and extra long threads, over and undersize pipe; take 2" couplings to thread 2" close nipples. Chaser dies of high-speed steel are precision cut. Rugged steel and malleable construction, with drop-forged hardened steel cam plate. Buy 65Rs for time-and-work-saving and better threads.



No. 65R-C Ratchet with cam workholder.

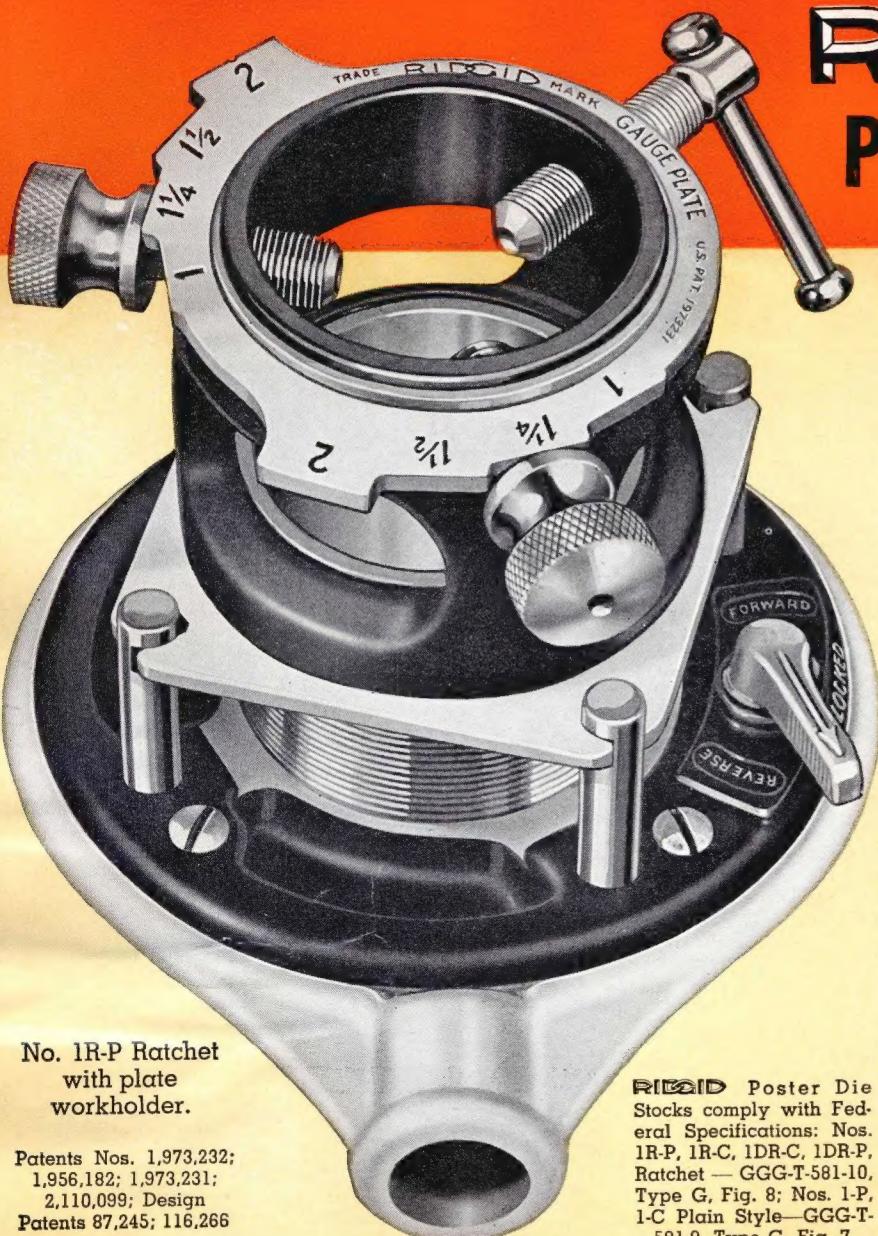
Patents Nos. 1,973,232;
1,956,182; 1,973,231;
2,076,831; Design Patents
87,245; 116,266



No. 65R-P
Ratchet
with plate
workholder.



RIDGID No. 1R Poster Threaders



No. 1R-P Ratchet
with plate
workholder.

Patents Nos. 1,973,232;
1,956,182; 1,973,231;
2,110,099; Design
Patents 87,245; 116,266

RIDGID Poster Die
Stocks comply with Fed-
eral Specifications: Nos.
1R-P, 1R-C, 1DR-C, 1DR-P,
Ratchet — GGG-T-581-10,
Type G, Fig. 8; Nos. 1-P,
1-C Plain Style — GGG-T-
581-9, Type G, Fig. 7.

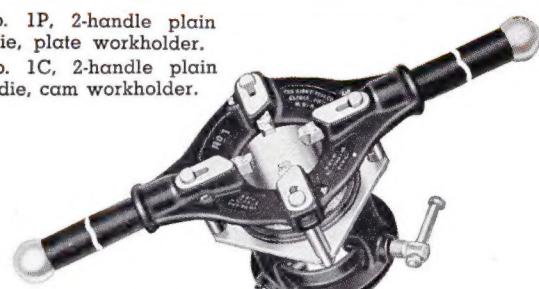
**Offer You Rugged Strength,
Mistake-Proof Workholders and
Interchangeable Chaser Dies**

New durability, smooth threading and work-saving in these **RIDGID** Poster threaders. Strong steel and malleable construction. Thread 1" to 2" pipe with 4 sets of dies, all kinds of pipe and conduit. Same size, same number chaser dies are interchangeable. Replaceable full-floating posts—no distorting pressure on them; they merely taper thread. Closed chaser slots on die face can't stretch. Thumb lever reverses ratchet, locks it for solid die. Handle pull right over chasers, direct power to dies—no cock or wobble. Choice of 2 quick-action mistake-proof workholders—no bushings. Automatic cam type—turn gauge ring to pipe size. Plate type—turn screws to size on plate. Both workholders handle drip and extra long threads, over and undersize pipe; take 2" couplings to thread 2" close nipples. All these advantages are yours at low cost in **RIDGID** Posters.

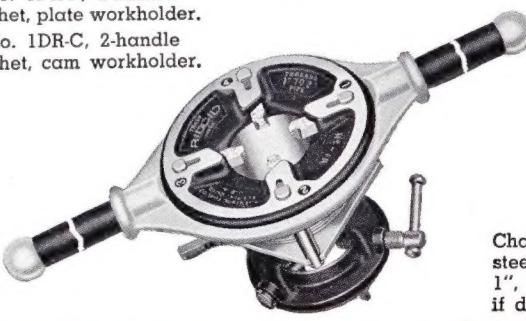


No. 1R-C Ratchet
with cam
workholder

No. 1P, 2-handle plain
die, plate workholder.
No. 1C, 2-handle plain
die, cam workholder.



No. 1DR-P, 2-handle
ratchet, plate workholder.
No. 1DR-C, 2-handle
ratchet, cam workholder.



Chaser dies, 1", 1 1/4", 1 1/2", alloy
steel; 2", high speed steel. Also
1", 1 1/4", 1 1/2" high speed steel,
if desired.

RIDGID Threaders for Small Pipe

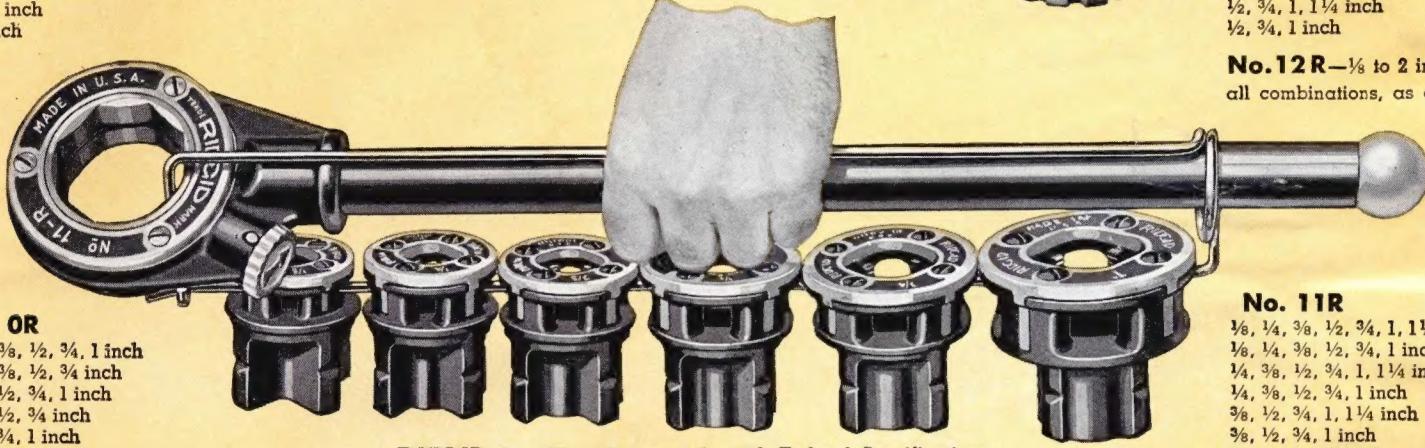
Handy Ratchet Dies that save you time and work

Patents Nos. 2,219,721;
2,242,954; 2,255,009



No. 00-R

1/8, 1/4, 3/8, 1/2, 3/4, 1 inch
1/8, 1/4, 3/8, 1/2, 3/4 inch
1/4, 3/8, 1/2, 3/4, 1 inch
1/4, 3/8, 1/2, 3/4 inch
1/2, 3/4, 1 inch
1/2, 3/4 inch
2/3, 1 inch
2, 3/4 inch

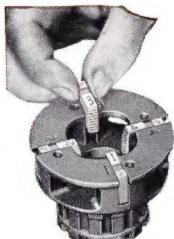


No. 111R

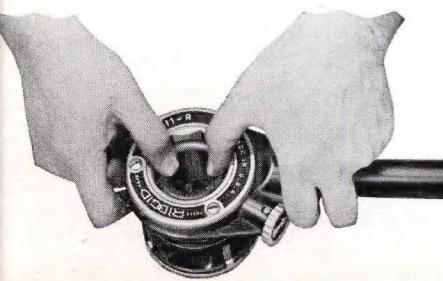
1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4 inch
1/8, 1/4, 3/8, 1/2, 3/4, 1 inch
1/4, 3/8, 1/2, 3/4, 1, 1 1/4 inch
1/4, 3/8, 1/2, 3/4, 1 inch
3/8, 1/2, 3/4, 1, 1 1/4 inch
3/8, 1/2, 3/4, 1 inch
1/2, 3/4, 1, 1 1/4 inch
1/2, 3/4, 1 inch

No. 12R—1/8 to 2 inch, in all combinations, as above.

To thread pipe close to wall, simply turn dies upside - down and place in slots as numbered on head and dies—no special dies needed.



No. 0R and 11R die heads push out of ratchet ring easily for changing, but can't fall out.



RIDGID Nos. 0R, 11R, 00R, 111R and 12R

EASIER, better threading of $\frac{1}{8}$ " to 2" pipe with these rugged steel & malleable dies. No. 00R, 111R & 12R die heads lock in or release by pull of ratchet knob. Nos. 0R and 11R die heads push out easily for changing, snap in from either side, can't fall out. Separate sets of alloy steel chaser dies, quickly removed for regrinding or reversed for close-to-wall threads. Electrical conduit dies at regular die prices. Convenient carrier free with complete sets.

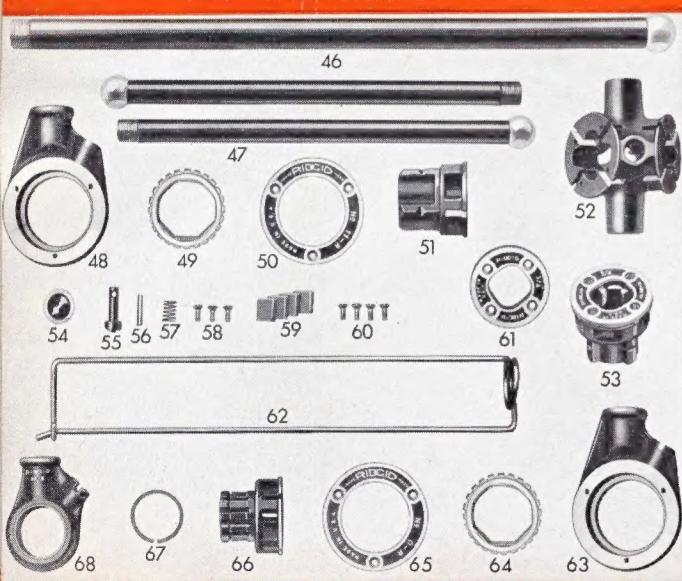
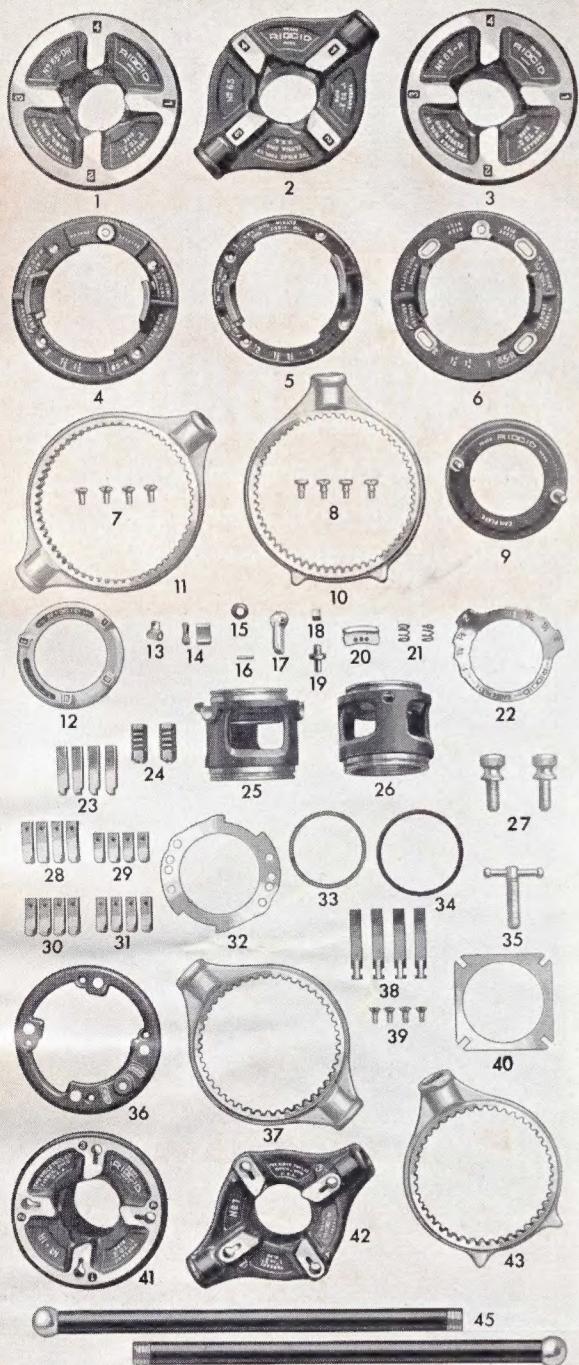
RIDGID 3-WAY DIE STOCKS

Convenient compact threaders, with same handy reversal of chasers for close-to-wall threads, same alloy chasers easily removed for regrinding as ratchet dies described above.

No. 30-A
Threads $\frac{1}{8}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ " pipe

No. 31-A
Threads $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ " pipe





RIDID

Threader Parts List

Parts for 65R and 1R Die Stocks

Genuine RIDID parts for 65R and 1R poster die stocks are illustrated at left and may be identified from the following list. Parts for 65 and 65R Die Stocks are marked (65); parts for 1 and 1R Die Stocks are marked (1). When ordering parts specify part number, die number and size.

No.	Part
2, 3.	Heads (65)
5, 6.	Drive Plates (65)
7.	Drive Plate Screw (65)
8.	Drive Plate Shoulder Screw (65)
9.	Cam Plate (65)
10.	Ratchet Ring, Single (65)
11.	Ratchet Ring, Double (65)
12.	Gauge Ring (65,1)
13.	Release Cam (1)
14.	Ratchet Pawl (65,1)
15.	Release Cam Flat Spring (65,1)
16.	Cam Lever Pin (65,1)
17.	Release or Ratchet Cam Lever (65,1)
18.	Release Cam Shoe (65)
19.	Release Cam (65)
20.	Slide for Cam (1)
21.	Pawl Spring (65,1)
22.	Gauge Plate (65,1)
23.	Chasers (65)
24.	Workholder Jaws (65,1)
25.	
26.	
27.	
28, 29.	
30, 31.	
32.	
33.	
34.	
35.	
36.	
37.	
38, 39.	
40.	
41.	
42.	
43.	
44.	
45.	

Parts for Small Ratchet and 3-Way Threaders

Illustration at left below. When ordering parts, specify part no., type die and size.

No.	Part
46.	Ratchet Handle (00R, OR, 11R, 111R)
47.	Handle (30A, 31A)
48.	Drive Ring Housing (11R)
49.	Ratchet Ring (11R)
50.	Drive Ring Cover (11R)
51.	Die Head (OR, 11R)
52.	Body (30A, 31A)
53.	Die Head Assembly (00R, OR, 11R, 111R)
54.	Ratchet Knob (00R, OR, 11R, 111R)
55.	Ratchet Pawl (00R, OR, 11R, 111R)
56.	Pin (00R, OR, 11R, 111R)
57.	Ratchet Spring (00R, OR, 11R, 111R)
58.	Screw for Drive Ring (OR, 11R)

RIDOL

(Ridge-Oil)

Sulphur-Lard Cutting Oils

These new thread cutting oils assure you cleaner, smoother threads . . . because they penetrate quickly, cool and lubricate efficiently . . . Hundreds of comparative experiments with many oils have proved Sulphur-Lard base Dark and Nu-Clear RIDOL far superior in quality. Both kinds are antiseptic, preventing risk of infection. . . . They do not congeal above 20 degrees F. Furnished in 1 gallon cans; 5, 30, and 55 gallon drums.



RIDGID Pipe Cutters

**Easier Faster Cutting of
All Kinds of Pipe**



No. 1 Heavy-Duty Cutter, $\frac{1}{8}$ " to $1\frac{1}{4}$ "; No. 2, $\frac{1}{8}$ " to 2".



No. 3 Heavy-Duty Cutter,
1" to 3". No. 4, 2" to 4".
No. 6, 4" to 6".

Pipe Cutters comply with Federal Specifications GGG-C-771.

Patents Nos. 1,833,980;
1,896,127; 1,932,563;
Canada, 1934



No. 42 Heavy-Duty, 4-wheel,
short handle, $\frac{1}{2}$ " to 2"; No. 44,
 $2\frac{1}{2}$ " to 4".



Thin-Blade
Cutter Wheel.



Heavy-Duty
Cutter Wheel.



Cutter Wheel
for Cast Iron
Pipe.

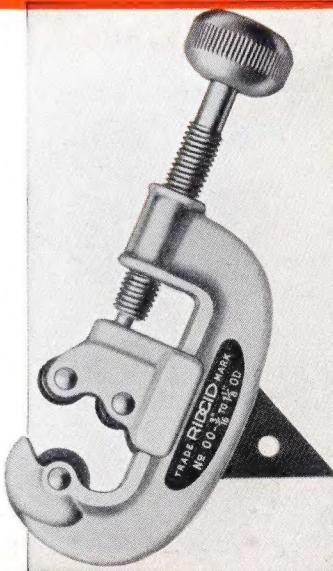
THIS cutter, with its remarkable new type cutter wheel, gives you more and cleaner pipe cuts for your money. Extra cutting power comes from the heat-treated blade, assembled in a steel-bushed hub; tough and thin, it rolls through all kinds of pipe. Extra rugged heavy-duty cutter wheels also available. The heavy-duty cutter with powerful malleable frame is made to cut true, each one tested and guaranteed. New trench-type heavy-duty cutter No. 42, with 4 cutter wheels and short handle for cutting in close quarters. All cutters can be made 3-wheel.

RIDGID Tubing Cutter WITH ROLLS

**for copper, brass, aluminum tubing
and thin-wall conduit**

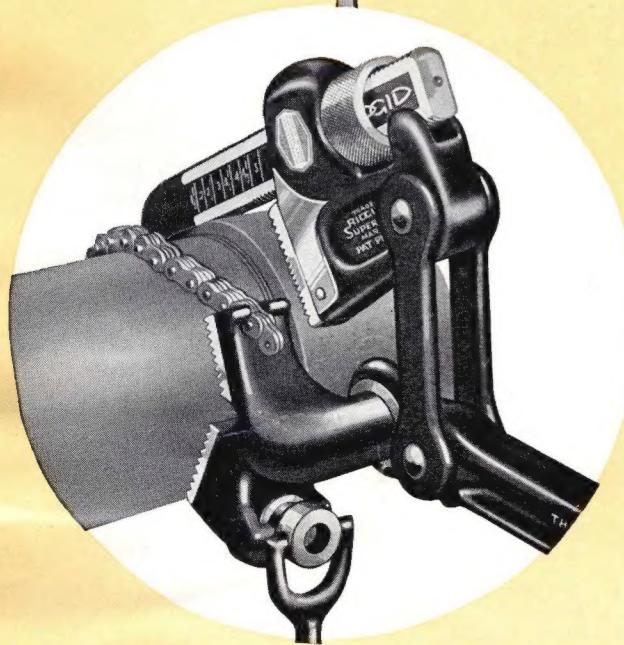
This remarkable little cutter rolls quickly, easily and cleanly through copper, brass or aluminum tubing and thin wall conduit. No tubing distortion. Rollers smooth the tube, ready for soldering. Compact, light, strong; always cuts true. Handy integral reamer that saves time. Wheel well protected from damage in tool kit. Razor-edge cutter wheel of alloy tool steel gives many more quick clean cuts per wheel. No. 000, $\frac{1}{8}$ " to 1" O. D.; No. 00, $3/16$ " to $1\frac{1}{8}$ "; No. 0, $1\frac{1}{2}$ " to $2\frac{1}{8}$ ".

Patents Nos. 1,833,980; 1,896,127;
Design Patent 97,513



RIDGID

Compound Leverage Pipe Wrench



**Gives You 14 Times the Turning Power of a
regular Pipe Wrench of Equal Jaw Capacity**

Here's a tool that quickly pays for itself in salvaged fittings, saved time and man-power. Has 14 times the leverage of an ordinary wrench of the same capacity. Starts any frozen joint; one man can tighten pipe up to 8". Two parts, trunnion and wrench, quickly attached or taken off. A profitable wrench in any kit. Four sizes for 2", 4", 6" and 8" pipe, and couplings and fittings with outside dimensions not exceeding these limits.

S-2, capacity 2" pipe, weight 6 lbs.

S-4, capacity 4" pipe, weight 28 lbs.

S-6, capacity 6" pipe, weight 40 lbs.

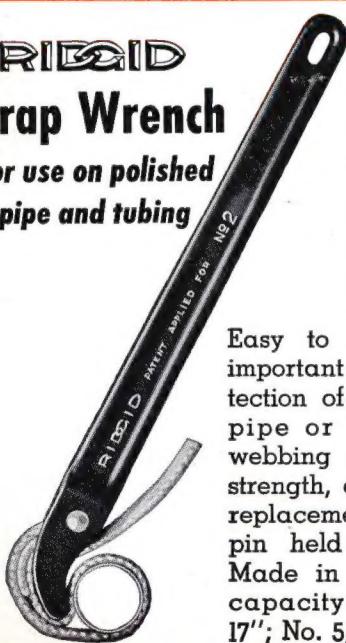
S-8, capacity 8", weight 60 lbs.

Patent No. 1,777,084

RIDGID

Strap Wrench

**For use on polished
pipe and tubing**



This new RIDGID tool is made with strong I-beam handle and solid head, all in one piece. Handy hang-up hole.

Easy to attach and use, important to have for protection of nickel or chrome pipe or tubing. Special webbing strap of unusual strength, easily taken off for replacement by pushing out pin held by spring clips. Made in two sizes: No. 2, capacity $\frac{1}{8}$ " to 2", strap 17"; No. 5, 1" to 5", strap 30".

RIDGID LonGrip Pipe Reamer



Because of the long taper design of this new RIDGID reamer, it cuts burr cleanly from the inside of pipe or conduit with least possible effort—practically no pressure required. Does not reduce wall of threading end nor flare or split pipe. Furnished complete with ratchet handle; or reamer unit may be purchased separately for use in RIDGID No. 00-R small ratchet die handle. Reamer capacity is $\frac{1}{8}$ " to 2".

RIDGID

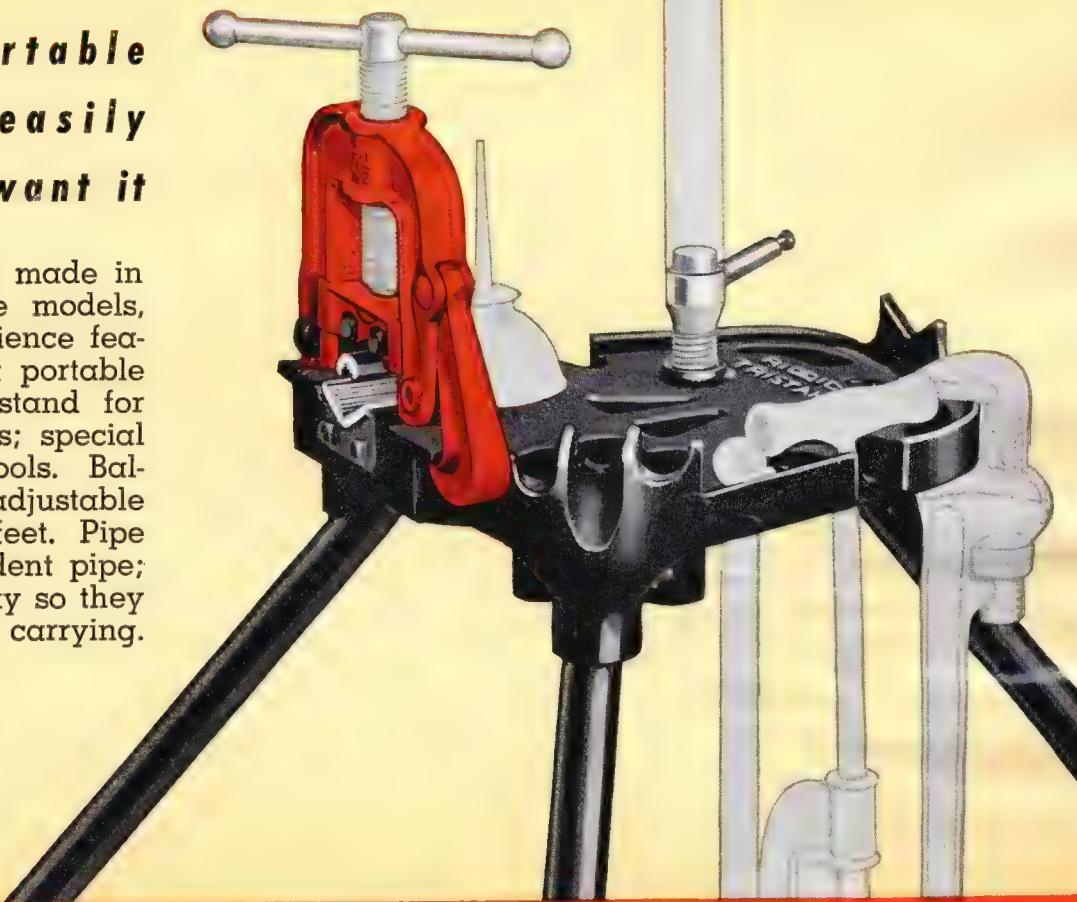
Tri-Stand Pipe Vise

***Practically a portable
workbench . . . easily
moved where you want it***

This **RIDGID** Tri-Stand, made in both yoke and chain vise models, offers you so many convenience features that it's practically a portable workbench. Wide, roomy stand for dope pot, oil can and tools; special rim and slots for hanging tools. Balanced to prevent tipping; adjustable ceiling brace, screw-down feet. Pipe rest, 3 benders that won't dent pipe; legs furnished hinged at tray so they fold in, and chain for easy carrying.

RIDGID Tri-Stand Pipe Vises: No
Federal Specifications required.

Design Patent No. 121,898



LongGrip jaws in yoke vises; jaws in both yoke and chain vises are of highest quality tool steel, scientifically hardened for firm grip and long wear. Yokes and bases are of strong special malleable metal. These work-saver vises give you extra value for your money.

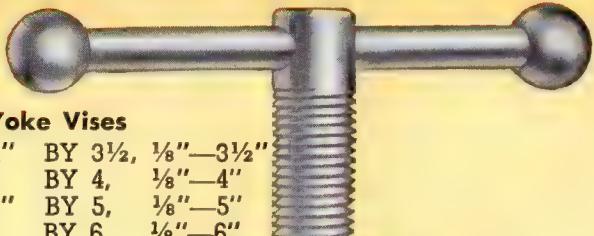
Tri-Stand with Yoke Vise,
capacity $2\frac{1}{2}$ ".

Tri-Stand with Chain Vise,
capacity, 4".



RIDGID

Yoke Pipe Vises



Bench Yoke Vises

BY 1 $\frac{1}{4}$, $\frac{1}{8}''$ —1 $\frac{1}{4}''$	BY 3 $\frac{1}{2}$, $\frac{1}{8}''$ —3 $\frac{1}{2}''$
BY 2-A, $\frac{1}{8}''$ —2"	BY 4, $\frac{1}{8}''$ —4"
BY 2 $\frac{1}{2}$, $\frac{1}{8}''$ —2 $\frac{1}{2}''$	BY 5, $\frac{1}{8}''$ —5"
BY 3, $\frac{1}{8}''$ —3"	BY 6, $\frac{1}{8}''$ —6"

RIDGID "BY" Bench Yoke Vises comply with Federal Specifications GGG-V-436. See Fig. XV—Type X, Class B. No Federal Specifications required on other yoke vises.



LongJrip Jaws Available in 4 Sizes up to 4 Inches

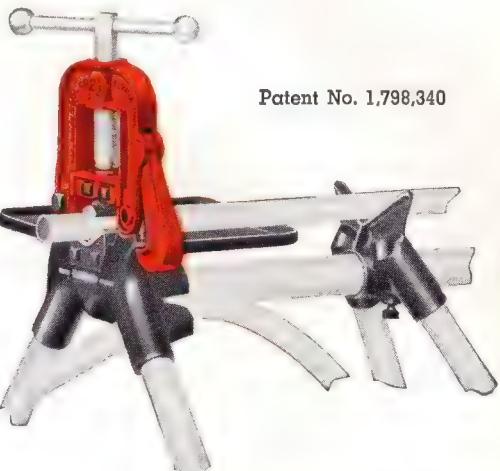
RIDGID Yoke Vises are made in bench, kit, stand and post patterns, with strong special malleable yokes and bases. All are equipped with integral pipe rests and pipe benders; post vise has oil can holder, stand is fitted with convenient tool tray. Kit vise is easily attached to plank or work bench. LongJrip jaws to protect polished pipe are furnished in sizes up to 4" capacity. All jaws made of finest quality tool steel, hardened for firm grip and long wear.



Kit Vises

Handy Portable Yoke Bench Vises

KY 1 $\frac{1}{4}$, $\frac{1}{8}''$ —1 $\frac{1}{4}''$
KY 2-A, $\frac{1}{8}''$ —2"
KY 2 $\frac{1}{2}$, $\frac{1}{8}''$ —2 $\frac{1}{2}''$



Stand Yoke Vises

SY 2 $\frac{1}{2}$, $\frac{1}{8}''$ —2 $\frac{1}{2}''$
SY 3 $\frac{1}{2}$, $\frac{1}{8}''$ —3 $\frac{1}{2}''$
Legs and connection pipes not furnished.



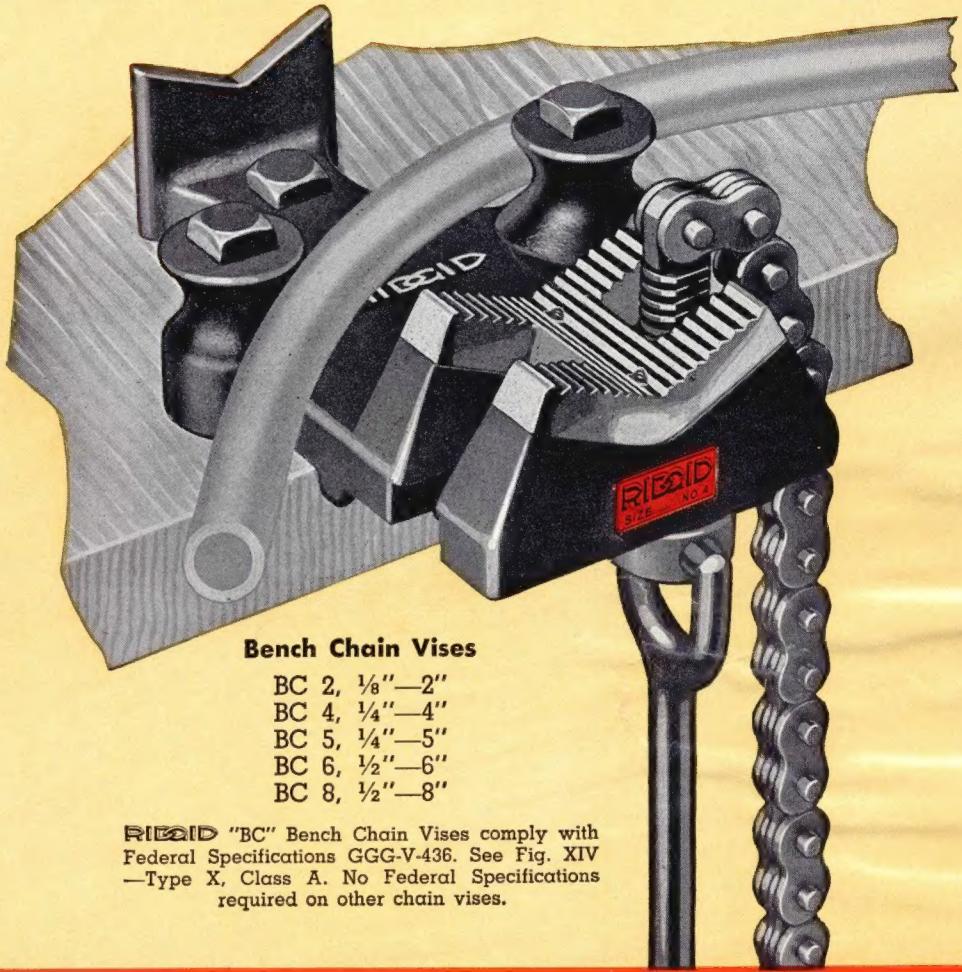
Post Yoke Vise PY 2 $\frac{1}{2}$

Quick put-up and take down, without tools or wedges. Capacity $\frac{1}{8}''$ to 2 $\frac{1}{2}''$.

RIDGID Chain Pipe Vises

All Equipped With Handy Pipe Rests and Pipe Benders

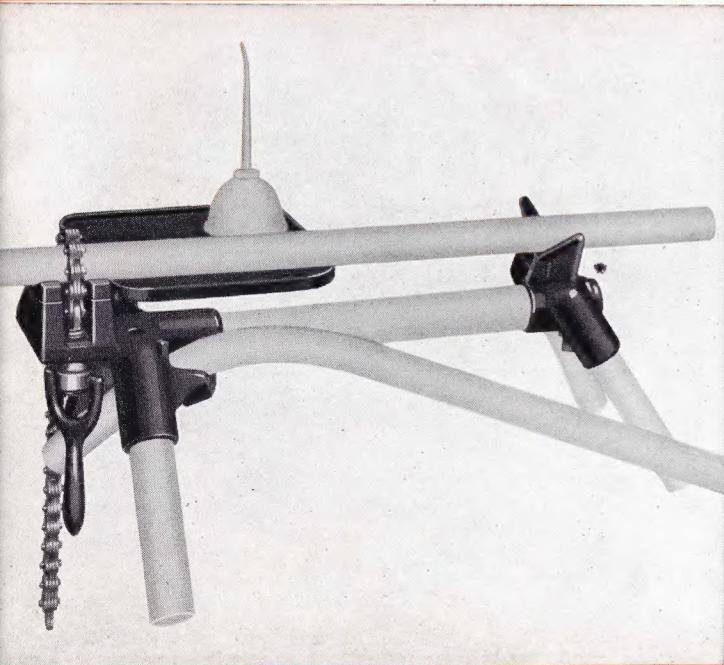
RIDGID Chain Vises are speedy to use — you simply flip the chain over the pipe, tighten the screw handle. You can depend on firm grip by jaws, which are made of highest quality tool steel, scientifically hardened for long wear. Integral support to rest pipe for easier cutting or threading. Each vise has handy pipe bender. Made in bench, post, stand and Tri-stand patterns; bench chain vises in five sizes, capacities up to 8"; stand, Tri-stand and post models, capacity to 5".



Bench Chain Vises

- BC 2, $\frac{1}{8}$ "—2"
- BC 4, $\frac{1}{4}$ "—4"
- BC 5, $\frac{1}{4}$ "—5"
- BC 6, $\frac{1}{2}$ "—6"
- BC 8, $\frac{1}{2}$ "—8"

RIDGID "BC" Bench Chain Vises comply with Federal Specifications GGG-V-436. See Fig. XIV — Type X, Class A. No Federal Specifications required on other chain vises.



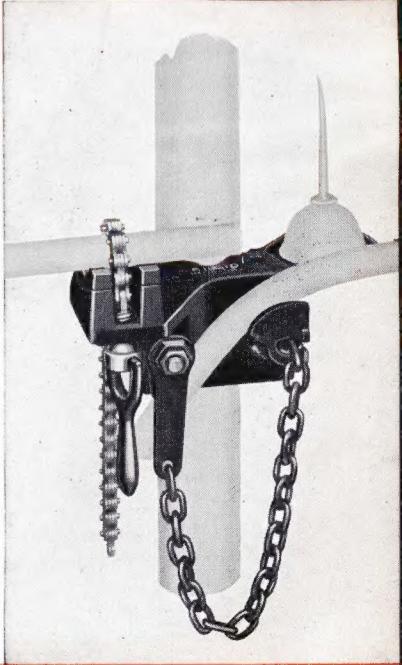
Stand Chain Vise, SC 5

Capacity $\frac{1}{8}$ " to 5". Handy tray for tools, oil can, dope pot, etc. Convenient pipe bender. Legs and connections not furnished.

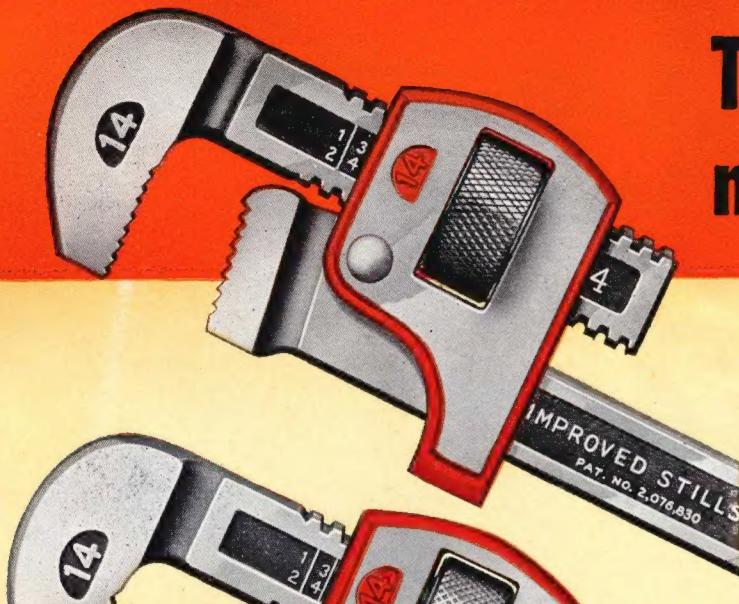
Patent No. 1,798,340

Post Chain Vise, PC 5

Made with $1\frac{1}{4}$ " pipe bender and oil can holder. Wrench for attaching to post is chained to vise, always handy. Capacity $\frac{1}{8}$ " to 5".



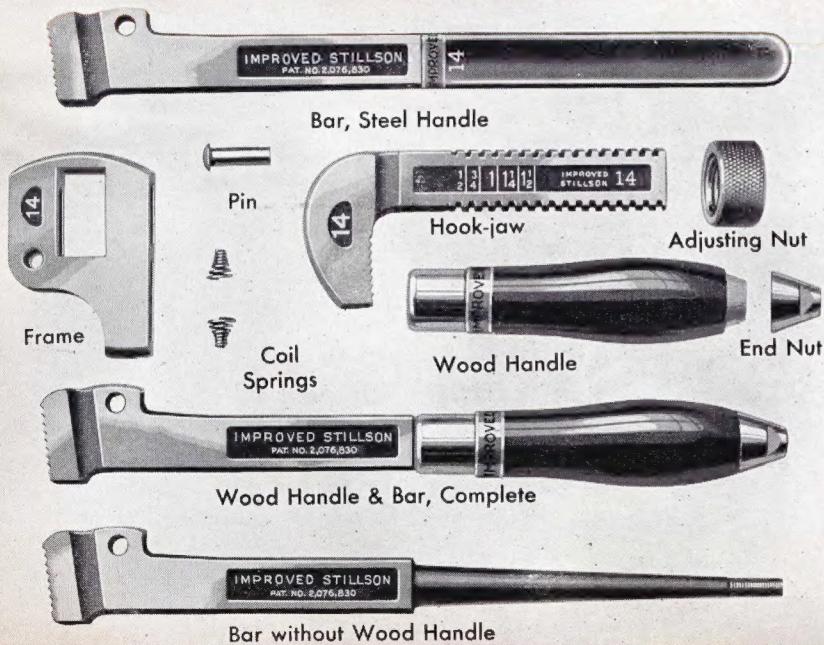
The Improved Stillson made by RIDGID



**CONE COIL
SAFETY SPRINGS
ARE INSIDE
THE HOUSING**



RIDGID Improved Stillson Wrenches
comply with Federal Specifications. Fig.
1. Type 1, Normal Duty.



Improved Stillson List Prices

Sizes	6"	8"	10"	14"	18"	24"	36"	48"
Cap. in Inches to	1/2"	3/4"	1"	1 1/2"	2"	2 1/2"	3 1/2"	5"
No. in Box	6	6	6	6	6	6	1	1
Approx. Wt. ea., lbs.	5/16	5/8	1 3/8	2 3/4	4 1/4	7 5/8	15	23
Approx. Wt. lbs., per box of 6	2	4	8 1/2	17 1/4	26 1/4	47		
Steel Handle (ea.)	\$1.90	2.20	2.85	3.85	5.50	9.50	20.00	30.00
Wood Handle (ea.)	\$2.00	2.30	3.15	4.25				

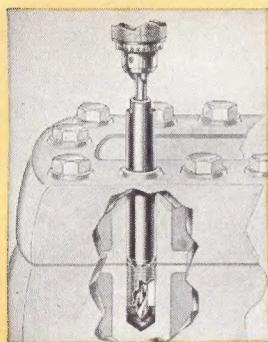
Subject to Usual Trade Discounts

Improved Stillson Parts List Prices

Sizes	6"	8"	10"	14"	18"	24"	36"	48"
Handle	.95	1.10	1.55	2.15	3.15	5.05	10.45	16.95
Jaw	.65	.70	1.10	1.50	2.15	3.50	5.70	9.00
Frame and Pin	.45	.55	.70	.80	.95	1.75	2.75	3.50
Frame Pin Only	.03	.03	.03	.04	.04	.04	.05	.05
Adjusting Nut	.15	.15	.20	.30	.35	.55	1.10	2.00
Wood Handles and Ferrules	.23	.25	.30	.36				
End Nut	.15	.15	.20	.20				
Coil Spring	.03	.03	.03	.03	.04	.04	.04	.04
Frame, Coil Springs and Pin	.48	.58	.76	.86	1.03	1.83	2.83	3.58

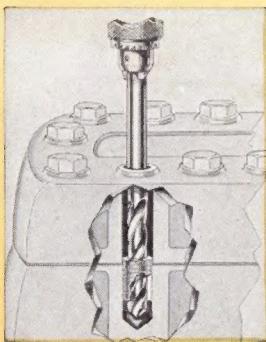
RIDGID LONGRIP Pipe and Screw Extractors

**New Method Takes Out Broken Threaded Ends
Flush With the Surface or Down in a Hole**



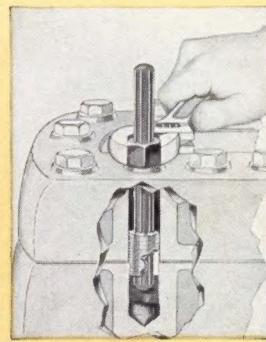
1

To remove broken-off bolt or screw ends, drill a small hole clear through the broken end using a snug fitting RIDGID Drill Guide for precision centering. This hole is for centering the larger drill to follow.



2

Second step in safe removal of broken-off bolt ends is to remove Drill Guide, then drill out the small center hole to large diameter for receiving the husky LonGrip Straight Fluted Extractor.



3

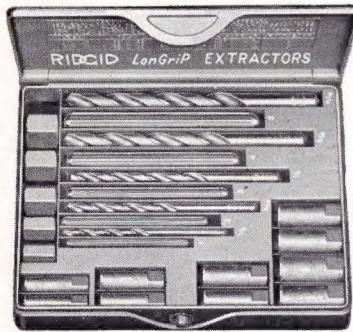
To remove drilled-out bolts or broken-off pipe ends, drive a LonGrip Extractor straight in and turn the broken end out. Straight flutes grip full length, can't slip or ream. Broken end has to come out.

Patent No. 2,121,197

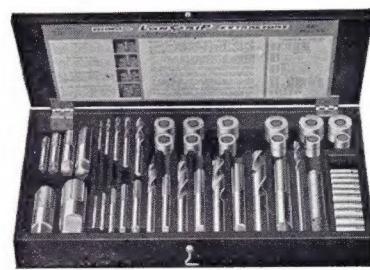


THE New "LonGrip" extractor is straight, with vertical flutes that stand out from the tool. When driven into a pipe or drilled out bolt end, these flutes groove their way firmly down the entire length of broken-off end. Once inserted, straight-fluted "LonGrip's" stay put—they will not turn into or out of broken end, as with spiral tapered extractors. No damage to threads, no wedging, bottoming, slipping, reaming—no failures. Because RIDGID "LonGrip's" are same diameter full length, they are of maximum strength—no danger of breaking. Complete range of sizes from $\frac{1}{8}$ " to 2". Perfect for screwing in fully threaded nipples in radiator connections, etc., protecting threads.

Handy Complete Sets of RIDGID Screw Extractors



SET No. 10—For Screws of diameters $\frac{1}{4}$ " to $\frac{1}{2}$ " inclusive. Maximum depth extractions 1 inch. Contains one each of Extractors Nos. 1 to 5 inclusive, Drills Nos. 1 to 5 inclusive, Drill Guides Nos. 921 to 1821 inclusive. Twenty five precision tools, packed in die cast box.



SET No. 25—For Screws of diameters $\frac{3}{16}$ " to 1" inclusive, and Pipe Threaded Ends of diameters $\frac{1}{8}$ " to 1" inclusive. Maximum depth extractions range 1" to 3". Contains one each of Screw Extractors Nos. 0 to 8 inclusive, Drills Nos. 0 to 8 inclusive, also one No. 36, a complete set of Drill Guides and Bushings and Pipe Extractors Nos. 80 to 85 inclusive. Sixty-five precision tools packed in a wood box having fitted compartments.

For further information about other LonGrip sets, write for special bulletin.

RIDGID LonGrip Pipe Extractors

In Sets



For extracting broken threaded ends of pipe, pipe plugs, fittings, etc., that no wrench can get hold of. Each extractor is plainly marked showing drill size to use when solid ends of plugs, fittings, etc., must be drilled to receive extractor.

Set No.

880	($\frac{1}{8}$ — $\frac{1}{2}$)	Nos. 80 to 83 inclusive
881	($\frac{1}{4}$ — $\frac{3}{4}$)	Nos. 81 to 84 inclusive
882	($\frac{1}{4}$ —1)	Nos. 81 to 85 inclusive
883	($\frac{1}{8}$ —1)	Nos. 80 to 85 inclusive



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